

QY	781	cggaaacgcgttccatcaagaggcttcgacacccttgatcacgggt	833	
Db	995	aaggcgaggatgtcccagacgtggacatccgtggattaaggcgat	1047	
AAH78068;	XX			
AAH78068;	XX			
26-NOV-2001	(first entry)			
DT				
XX				
DE				
Human; protein kinase; protein phosphatase; signal transduction; intracellular signalling pathway; ss.				
KW				
OS				
Homo sapiens.				
Key		Location/Qualifiers		
FT		215..1579		
FT		/tag= a		
FT		/product= "protein kinase/protein phosphatase"		
PN		WO200109345-A1.		
XX				
PD		08-FEB-2001.		
XX				
PF		28-JUL-2000; 2000WO-JP05060.		
XX				
PR		29-JUL-1999; 99JP-0248036.		
PR		18-OCT-1999; 9905-0159590.		
PR		11-JAN-2000; 2000UP-0118776.		
PR		17-FEB-2000; 2000US-0183322.		
PR		02-MAY-2000; 2000JP-0183767.		
XX				
PA		(HELI-) HELIX RES INST.		
XX				
PI		Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;		
PI		Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T, Funahashi S;		
PI		Senoo C, Nezu J;		
XX				
DR		WPI: 2001-564136/63.		
DR		P-FSSDB; AAG67425.		
XX				
PT		New genes encoding protein kinase and protein phosphatase, useful for identifying modulators which can be used to treat human or animal disorders associated with the expression or function of these enzymes -		
PT		Claim 1; Page 119-125; 336pp; Japanese.		
PS				
XX				
CC		The present sequence encodes a human protein kinase/protein phosphatase. The polypeptides are expected to participate in signal transduction. The kinase phosphatases are connected with intracellular signalling pathways. Antigenic oligonucleotides and compounds identified by screening (agonists or antagonists) can be used to treat human or animal disorders associated with the expression or function of the protein. In addition, the polypeptides may be used as target molecules for drug development.		
CC				
CC		Sequence 2224 BP; 419 A; 656 C; 806 G; 343 T; 0 other;		
SQ				
Query Match		47..63; Score 514..6; DB 22; Length 2224;		
Best Local Similarity		76.1%; Pred. No. 2,4e-122;		
Matches		634; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
QY	1	atggaggccatccaaatcgccatggggactttatgcacatcgccggaggatgggg 60		
Db	215	atggccacatccatggggaggacatgtggatggggaggatgggg 274		
RESULT	6			
ID	AAH78068	standard; DNA; 2224 BP.		
XX				
AC				
XX				
DT		01-JUL-1999 (first entry)		
XX				
DE		Murine ZIP-kinase (serine/threonine kinase) encoding DNA.		
XX				
XX		Zipper Interacting Protein Kinase; ZIP-kinase; serine/threonine kinase; leucine zipper domain; transcription factor ATF4; gene therapy; cancer; Human; murine; ss.		
XX				
OS		Mus musculus.		
XX				
EP911408-A2.				
PD		28-APR-1999.		
XX				

C
transgenic animals.

XX
Sequence 480 BP; 123 A; 128 C; 137 G; 92 T; 0 other;

Query Match 41.2%; Score 445.4; DB 21; Length 480;
Best Local Similarity 98.7%; Pred. No. 1.8e-113; Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 626 tcctcttaatgtggactccccccttccctgggaaacactggcaata 685
Db 26 tcacctttatgtggactccccccttccctgggaaacactggcaata 85

OY 686 tcacatcgatgtggactccccccttccctgggaaacactggcaata 745
Db 86 tcacagtcgtggactccccccttccctgggaaacactggcaata 145

OY 746 agacttattcgtggactccccccttccctgggaaacactggcaata 805
Db 146 agacttattcgtggactccccccttccctgggaaacactggcaata 205

OY 806 ctctcagacacccctggatcaccccggtggacaaaccacaccc 865
Db 206 ctctcagacacccctggatcaccccggtggacaaaccacaccc 265

OY 866 ctgtgtgtcaatctggagacttcaggagcgtatgtggggatct 925
Db 266 ctgtgtgtcaatctggagacttcaggagcgtatgtggggatct 325

OY 926 tcgcatcgatgtggactccccccttccctgggaaacactggcaata 985
Db 326 tcacgtatcgatgtggactccccccttccctgggaaacactggcaata 385

OY 986 ggcggatggactggggactgtggggatctggggatctggggatct 1045
Db 386 ggccggatggactggggatctggggatctggggatctggggatct 445

OY 1046 aagccctccacccacgggggggggggggggggggggggggggg 1080
Db 446 aagccctccacccacgggggggggggggggggggggggggggg 480

RESULT 12
AA299730
ID AA299730 standard; CDNA; 1864 BP.
XX
AA299730:
XX
DT 12-JUL-2000 (first entry)
XX
CDNA encoding human cardiovascular system associated protein kinase-4.
XX
Human; cardiovascular system associated protein kinase-4; CSAPK-4;
KW signalling pathway; cell growth; cell differentiation; gene mapping;
tissue typing; forensic identification; cardiovascular disease;
congestive heart failure; transgenic animal; ss.
OS Homo sapiens.
XX
Key Location/Qualifiers
FH CDS 275..757
FT /*tag= " kinase-4" /product= " kinase-4"
FT
XX
WO20014212-A1.
XX
PD 16-MAR-2000.
XX
PR 09-SEP-1999; 99W0-US20631.
XX
PR 09-SEP-1998; 98US-0039657.
PR 29-SEP-1998; 98US-0163115.

XX
PA (MILL-) MILLENIUM PHARM INC.
XX
PI Action S;
XX
DR WPI; 2000-271053/23.
DR p-PSDB; AAY84323.

PT New nucleic acid encoding cardiovascular system associated protein
PT cardiovascular disease

XX
PS Claim 1; Fig 4; 163pp; English.

The present sequence encodes a human cardiovascular system associated protein kinase-4 (CSAPK-4). CSAPK polypeptides are involved in signalling pathways associated with cell growth and differentiation. The CSAPK polypeptides and polynucleotides are used to screen for agents that specifically modulate CSAPK, which are potential therapeutic agents. They are also used for diagnosis, prognosis or monitoring of CSAPK related diseases, gene mapping, tissue typing and forensic identification, and for treating or preventing disorders associated with aberrant CSAPK expression or activity, especially cardiovascular diseases such as congestive heart failure. They can also be used in pharmacogenomics. The CSAPK polynucleotide may also be used to generate transgenic animals.

XX
Sequence 1864 BP; 437 A; 504 C; 527 G; 396 T; 0 other;

Query Match 41.2%; Score 445.4; DB 21; Length 1864;
Best Local Similarity 98.7%; Pred. No. 3.4e-113; Matches 449; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 626 tcctttatgtggactccccccttccctggggatctggggatct 685
Db 300 tcacatcgatgtggactccccccttccctggggatctggggatct 359

OY 686 tcacatcgatgtggactccccccttccctggggatctggggatct 745
Db 360 tcacatcgatgtggactccccccttccctggggatctggggatct 419

OY 746 agacttattcgtggactccccccttccctggggatctggggatct 805
Db 420 agacttattcgtggactccccccttccctggggatctggggatct 479

OY 806 ctctcagacacccctggatcaccccggtggacaaaccacaccc 865
Db 480 ctccatcgacacccctggatcaccccggtggacaaaccacaccc 539

OY 866 ctgtgtgtcaatctggggactgtggggatctggggatctggggatct 925
Db 540 ctgtgtgtcaatctggggatctggggatctggggatctggggatct 599

OY 926 tcgcatcgatgtggggactgtggggatctggggatctggggatct 985
Db 600 tcacatcgatgtggggatctggggatctggggatctggggatct 659

OY 986 ggcggatggggactgtggggatctggggatctggggatctggggatct 1045
Db 660 ggcggatggggactgtggggatctggggatctggggatctggggatct 719

OY 1046 aagccctccacccacgggggggggggggggggggggggggggg 1080
Db 720 aagccctccacccacgggggggggggggggggggggggggggggg 754

RESULT 13
AAK91856
ID AAK91856 standard; CDNA; 757 BP.
XX
AC AAK91856;

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in CD-ROM format directly from EPO.

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PR	27-SEP-2000; 2000US-0235836.	PI	Rosen CA, Barash SC, Ruben SM;
PR	29-SEP-2000; 2000US-0236327.	XX	
PR	29-SEP-2000; 2000US-0236367.	DR	
PR	29-SEP-2000; 2000US-0236368.	WPI:	2001-483426/52.
PR	29-SEP-2000; 2000US-0236370.	XX	
PR	02-OCT-2000; 2000US-0237037.	PT	Nucleic acids encoding human immune/hematopoietic antigen polypeptides, useful for preventing, diagnosing and/or treating cancers and metastasis -
PR	02-OCT-2000; 2000US-0237038.	PT	Disclosure: SEQ ID NO 25453; 3071pp + Sequence Listing; English.
PR	02-OCT-2000; 2000US-0241821.	XX	AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I) amino acid sequences given in AAM22170 to AAM91221. (I) have cytostatic activity, and can be used in gene therapy and vaccine production. (I) proteins and polynucleotides may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For example, they may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of (I) by expressing inactive proteins or to supplement the patients own production of (I). Additionally, (I) polynucleotides may be used to produce the secreted (I), by inserting the nucleic acids into a host cell and culturing the cell to express the protein. (I) Proteins and polynucleotides may be used to prevent, diagnose and treat immune/haematopoietic-related diseases, especially cancers and cancer metastases of haematopoietic-derived cells. AAK64703 to AAK87694 represent human immune/haematopoietic antigen genomic sequences from the present invention. AAK54942 and AAM82169 sequences represent sequences used in the exemplification of the present invention.
PR	01-NOV-2000; 2000US-0244617.	CC	
PR	08-NOV-2000; 2000US-0246474.	CC	
PR	08-NOV-2000; 2000US-0246475.	CC	
PR	08-NOV-2000; 2000US-0246476.	CC	
PR	08-NOV-2000; 2000US-0246477.	CC	
PR	08-NOV-2000; 2000US-0246478.	CC	
PR	08-NOV-2000; 2000US-0246523.	CC	
PR	08-NOV-2000; 2000US-0246524.	CC	
PR	08-NOV-2000; 2000US-0246525.	CC	
PR	08-NOV-2000; 2000US-0246526.	CC	
PR	08-NOV-2000; 2000US-0246527.	CC	
PR	08-NOV-2000; 2000US-0246528.	CC	
PR	08-NOV-2000; 2000US-0246532.	CC	
PR	08-NOV-2000; 2000US-0246609.	CC	
PR	08-NOV-2000; 2000US-0246610.	CC	
PR	08-NOV-2000; 2000US-0246611.	CC	
PR	08-NOV-2000; 2000US-0246613.	CC	
PR	08-NOV-2000; 2000US-0246909.	CC	
PR	17-NOV-2000; 2000US-0249207.	CC	
PR	17-NOV-2000; 2000US-0249208.	CC	
PR	17-NOV-2000; 2000US-0249209.	CC	
PR	17-NOV-2000; 2000US-0249210.	CC	
PR	17-NOV-2000; 2000US-0249212.	CC	
PR	17-NOV-2000; 2000US-0249213.	CC	
PR	17-NOV-2000; 2000US-0249214.	CC	
PR	17-NOV-2000; 2000US-0249215.	CC	
PR	17-NOV-2000; 2000US-0249216.	CC	
PR	17-NOV-2000; 2000US-0249217.	CC	
PR	17-NOV-2000; 2000US-0249218.	CC	
PR	17-NOV-2000; 2000US-0249244.	CC	
PR	17-NOV-2000; 2000US-0249245.	CC	
PR	17-NOV-2000; 2000US-0249264.	CC	
PR	17-NOV-2000; 2000US-0249265.	CC	
PR	17-NOV-2000; 2000US-0249297.	CC	
PR	17-NOV-2000; 2000US-0249299.	CC	
PR	17-NOV-2000; 2000US-0249300.	CC	
PR	01-DEC-2000; 2000US-0250160.	CC	
PR	01-DEC-2000; 2000US-0250391.	CC	
PR	05-DEC-2000; 2000US-0250390.	CC	
PR	05-DEC-2000; 2000US-0251988.	CC	
PR	06-DEC-2000; 2000US-0514719.	CC	
PR	08-DEC-2000; 2000US-0251868.	CC	
PR	08-DEC-2000; 2000US-0251869.	CC	
PR	08-DEC-2000; 2000US-0251990.	CC	
PR	11-DEC-2000; 2000US-0254097.	CC	
PR	05-JAN-2001; 2001US-0259678.	CC	
XX	(HUMA-) HUMAN GENOME SCI INC.	XX	
PA		XX	

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